

NUMBERS & ODDITIES  
a.k.a. the Spooks Newsletter  
Edition #123, November 2007

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EDITOR: Ary Boender ary@luna.nl

Check for previous newsletters, info, sound samples and databases also

NUMBERS & ODDITIES <http://www.ary.luna.nl>

ONLINE DATABASE <http://www.spynumbers.com/numbersDB/>

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The weather is quite bad when I'm writing this. I have tuned one receiver to 2182 kHz and the other is on GMDSS frequency 2187.5 kHz and noticed that during the evening and night at least 4 distress calls came through. I'm glad that's is warm and dry in my shack :-)

Some have asked my why I'm still using plain text files instead of MS Word or PDF files. Well, it's quite simple. You can read TXT files on every type of PC no matter what systems or programs you are using. You are right when you say that the format is dull :-) Therefore I would like to know what you think. Should I change to another, more flashy, format and publish N&O as PDF file?

Ok, let's talk about Numbers now. The Cubans are still playing around with RDFT and the Russian military were quite active in November. Kaliningrad was even active on 420 and 583 kHz with messages and channel marker "P". Khiva has moved its 7002 kHz marker "V" to 6430 kHz. The French morse training nets are also very active. So far I still have no definite info about them. I know that the various stations are connected but how exactly.....

\* VOICE STATIONS \*

::: E03 LINCOLNSHIRE POACHER

All E03 items were provided by Alpha Vax this month. Thanks a million, Alpha!

E03 ID-list November 2007 - phase 1:

| UTC  | Mon   | Tue   | Wed   | Thu   | Fri   | Sat   | Sun   | UTC  |
|------|-------|-------|-------|-------|-------|-------|-------|------|
| 1200 | 54923 | 54923 | 54923 | 54923 | 54923 | 54923 | 54923 | 1200 |
| 1300 | 40811 | 40811 | 40811 | 40811 | 40811 | 40811 | 40811 | 1300 |
| 1400 | 24390 | 31246 | 57051 | 01225 | 54923 | 23440 | 68571 | 1400 |
| 1500 | 68571 | 24390 | 31246 | 57051 | 01225 | 54923 | 68877 | 1500 |

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1600 68877 68571 24390 31246 57051 01225 23440 1600
1700 23440 68877 68571 24390 31246 57051 54923 1700
1800 54923 23440 68877 68571 24390 31246 01225 1800
1900 01225 40811 23440 40811 68571 24390 40811 1900
2000 40811 54923 40811 68877 40811 68571 57051 2000
2100 57051 01225 54923 23440 68877 40811 31246 2100
2200 31246 57051 01225 54923 23440 68877 24390 2200

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Changes:

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10-11: 57051 --> 07149
12-11: 40811 --> 48042

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E03 ID-list November 2007 - phase 2:

| UTC  | Mon   | Tue   | Wed   | Thu   | Fri   | Sat   | Sun   | UTC  |
|------|-------|-------|-------|-------|-------|-------|-------|------|
| 1200 | 11793 | 11793 | 11793 | 11793 | 11793 | 11793 | 11793 | 1200 |
| 1300 | 27001 | 27001 | 27001 | 27001 | 27001 | 27001 | 27001 | 1300 |
| 1400 | 52016 | 84765 | 28056 | 56534 | 11793 | 06445 | 78007 | 1400 |
| 1500 | 78007 | 52016 | 84765 | 28056 | 56534 | 11793 | 03000 | 1500 |
| 1600 | 03000 | 78007 | 52016 | 84765 | 28056 | 56534 | 06445 | 1600 |
| 1700 | 06445 | 03000 | 78007 | 52016 | 84765 | 28056 | 11793 | 1700 |
| 1800 | 11793 | 06445 | 03000 | 78007 | 52016 | 84765 | 56534 | 1800 |
| 1900 | 56534 | 27001 | 06445 | 27001 | 78007 | 52016 | 27001 | 1900 |
| 2000 | 27001 | 11793 | 27001 | 03000 | 27001 | 78007 | 28056 | 2000 |
| 2100 | 28056 | 56534 | 11793 | 06445 | 03000 | 27001 | 84765 | 2100 |
| 2200 | 84765 | 28056 | 56534 | 11793 | 06445 | 03000 | 52016 | 2200 |

Samples:

1-11, 2000 UTC. Read downwards.

```

68877
04712 77791 00994 16147 85217 34671 47554 39237 97660 75173
28924 43543 27119 45462 69600 64642 13999 68980 34082 81022
67212 36316 79234 30881 37862 00927 13493 88496 36069 95559
27426 09231 37122 64974 75541 65851 41429 64244 16711 99330
04828 26514 44763 58799 58078 15691 87190 54324 76219 18263
84746 39317 43388 91845 24223 09188 26685 39691 87306 83679
23841 95860 96259 99776 63994 07566 35942 38930 21744 89792
46682 07265 17891 62312 52593 28507 71888 81837 80847 76374
93970 05358 53111 42071 45867 38241 61680 74374 50608 10554
59339 46117 19410 62590 13359 59896 52535 10788 53975 85508
31064 89244 78852 78210 69128 39942 44127 50659 89768 21192
81403 64672 31165 03327 63452 36205 66555 81971 33052 69181
16256 82023 53669 21783 16568 16456 19272 00766 23402 66893
63893 20075 86713 25889 25922 30850 80711 77565 70847 13064
17186 96890 00122 20327 32044 72188 82674 13442 86785 36450

```

|       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 92560 | 47001 | 66460 | 49472 | 41869 | 28335 | 38143 | 77968 | 57438 | 55340 |
| 82428 | 11652 | 84502 | 75413 | 59513 | 96702 | 97672 | 69934 | 65886 | 14620 |
| 54320 | 46677 | 57690 | 78928 | 78154 | 76618 | 27122 | 25755 | 76099 | 14912 |
| 04170 | 32355 | 39741 | 96646 | 80180 | 99304 | 29006 | 24585 | 37109 | 33544 |
| 51700 | 55331 | 87611 | 89143 | 69622 | 23831 | 81942 | 74893 | 27558 | 01813 |

1-11, 2100 UTC. Read downwards.

|       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 23440 |       |       |       |       |       |       |       |       |       |
| 83141 | 11282 | 61879 | 27591 | 69773 | 92530 | 10070 | 23250 | 78430 | 68096 |
| 02004 | 43551 | 28548 | 60502 | 83227 | 93473 | 32771 | 62557 | 85126 | 37786 |
| 69067 | 93298 | 98205 | 57309 | 25999 | 51892 | 39178 | 79148 | 56347 | 68862 |
| 54292 | 36594 | 19877 | 66852 | 45269 | 88905 | 24461 | 10306 | 09236 | 74745 |
| 86619 | 58561 | 12854 | 56170 | 93736 | 04896 | 68487 | 67813 | 55526 | 16024 |
| 26111 | 31149 | 02883 | 85865 | 72722 | 00900 | 76813 | 81562 | 52730 | 45482 |
| 83898 | 87495 | 89624 | 13650 | 21976 | 10520 | 91612 | 42773 | 37431 | 04403 |
| 17727 | 82048 | 55311 | 62139 | 53317 | 37113 | 97682 | 21782 | 30558 | 28700 |
| 46231 | 95039 | 00830 | 54061 | 43096 | 29663 | 95096 | 46264 | 33545 | 90466 |
| 78904 | 40762 | 38715 | 46897 | 62304 | 89661 | 10409 | 45562 | 43480 | 49865 |
| 74739 | 36143 | 89883 | 46636 | 53401 | 85429 | 63601 | 83361 | 15921 | 27865 |
| 76940 | 71751 | 25762 | 57522 | 38769 | 66678 | 22842 | 86437 | 45953 | 91742 |
| 82584 | 16088 | 68506 | 97977 | 04571 | 76823 | 49935 | 43795 | 26415 | 17002 |
| 32299 | 69203 | 11346 | 09666 | 30414 | 94528 | 25444 | 43242 | 84716 | 43943 |
| 66919 | 03982 | 37263 | 75347 | 33542 | 71935 | 22146 | 62825 | 35146 | 46330 |
| 91145 | 83991 | 97598 | 64274 | 05006 | 41407 | 00174 | 18133 | 97811 | 59300 |
| 91708 | 14943 | 96774 | 17977 | 73151 | 59363 | 73394 | 31471 | 48424 | 89911 |
| 28457 | 14696 | 80149 | 14687 | 66379 | 19923 | 97234 | 89128 | 30970 | 60059 |
| 34063 | 50497 | 14492 | 86670 | 06757 | 93102 | 51518 | 78578 | 11021 | 09747 |
| 42303 | 34447 | 97977 | 33972 | 59936 | 92909 | 50617 | 48106 | 19520 | 33856 |

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::: E03a (E04) CHERRY RIPE

E03a ID - list November 2007 - phase 1:

| UTC  | Sun   | Mon    | Tue    | Wed    | Thu    | Fri   | UTC  |
|------|-------|--------|--------|--------|--------|-------|------|
| 2200 | 47129 | 62534  | CCCCC  | DDDDD  | 62534  |       | 2200 |
| 2300 | 62534 | CCCCC  | DDDDD  | 62534  | EEEEEE |       | 2300 |
| 0000 |       | CCCCC  | DDDDD  | 62534  | EEEEEE | 68079 | 0000 |
| 0100 |       | DDDDD  | 62534  | EEEEEE | 68079  | 62569 | 0100 |
| 1000 |       | 62534  | EEEEEE | 68079  | 62569  | 47129 | 1000 |
| 1100 |       | EEEEEE | 68079  | 62569  | 47129  | 62534 | 1100 |
| 1200 |       | 68079  | 62569  | 47129  | 62534  | CCCCC | 1200 |
| 1300 |       | 62569  | 47129  | 62534  | CCCCC  | DDDDD | 1300 |



583 kHz message to collective callsign RE0: "reo reo reo de rmp rmp" "qtc 693  
138 19 1953 693 = sml = " // 4079 kHz. Channel marker "P" was also on  
heard on 583 kHz.

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>

::: M21

Russian Air Defense stations were active on various frequencies.

```
Id "0" : 4639, 4951.5 kHz    =990128??0?????
Id "8" : 4639 kHz           =990852??8?????
Id ?   : 4574 kHz
```

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::: M22

4XZ, Israeli Navy was found on a couple of unusual frequencies lately: 5200, 5500, 7000 and 20956 kHz with its well known VVV marker and messages.

Sample messages:

VVV de 4XZ 4XZ  
 = = NR 051 YM V GH7M 436001 ZW30 GR 71 =  
 = AR AR VVV DE 4XZ 4XZ = =...

```
= = VVV DE 4XZ 4XZ
= = QC5C NR 943 HM GR 02
= = DB4W NR 843 EC GR 81
= = QC4W NR 743 ME GH 52
= = XA6M NR 643 UW GR 12
= = DB1E NR 543 HM GR 91
= = VVV DE 4XZ 4XZ
```

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>>

∴ ∴ ∴ M41

Russian Morse Radar Tracking Network related to M21.

Messages and callsigns heard by Fritz on:

|        |         |      |
|--------|---------|------|
| 4959   | (05-11) | EQM2 |
| 5402.5 | (19-11) |      |
| 4444.5 | (27-11) | EQM2 |
| 4985   | (27-11) | MEW5 |

::: M51

The morse reading lessons are amongst the oldest services of the REF (R...SEAU DES ...METTEURS FRAN«AIS). The Union started these services in 1934 and guess what.... We still listen to them in 2007! This article gives some background info.

Many French radio amateurs were former radio operators of the 8th Regiment of the Engineering Corps. One of the officers was general Gustave Ferri . He gave France a first class military radio-electrical organisation in 1914. In December 1927 the REF became a Soci t  Agr   Guerre -War Approved Society- (SAG N 12 744). This was the result of the permanent training program that REF organised for its members and also for military personnel. The training transmissions were sent by FLE on 4436 kHz before 1939. After that, transmissions were shared between FLE (Eiffel Tower), FYD (Pontoise) and FLJ (Issy-les-Moulineaux). The transmissions were interrupted in 1939 and resumed in 1947 with two more stations (Paris 6830 kHz, Lyon la Doua 6285 kHz).

The service started to use an unique callsign in the 1970is: "FAV22". The FAV22 transmissions used to take place from Monday to Friday at 2100 hrs on 3881 kHz and at 0900 and 1010 hrs on 6825 kHz. Both frequencies are still being used.

Frequencies: 3881//6825 kHz.

```
Speed: Monday    420 groups per hour
      Tuesday    600 groups per hour
      Wednesday  720 groups per hour
      Thursday   840 groups per hour
      Friday     900 groups per hour
      Sunday     420 groups per hour from 0900 to 0930
      Sunday     600 groups per hour from 1020 to 1040
      Sunday    1200 groups per hour from 1040 to 1055
```

Réseaux F9TM (F9TM network)

In the early days radio-amateurs could contact FLE, FYD or FLJ after the courses were broadcasted. After the war, in 1948, the courses resumed using the F9TM call-sign. The frequencies are different from those of FAV22.

- F9TM schedules in 2007 in local time (= UTC+1):

Thursday from 1830 to 1915 on 3536 kHz. Sunday from 0830 to 0920 on 7025//3536 kHz (sked not confirmed).

(info partly derived from the Réseau des Metteurs Français website)

"M51"

Then our mystery "M51" station. Even though it is on the air since 1996, we still do not know for sure what the purpose is and who actually transmits this stuff. I get no answer from the REF when I ask this question. Everything points however to the French military. The station often uses the same frequency as FAV22 and always stops before FAV22 starts. On 6825 kHz you can sometimes copy the last characters of a M51 transmission before the FAV22 lessons start. Both stations/services are probably controlled from the same control centre. I think that M51 is just another training service but now operated solely by the military.

Both FAV22 and M51 have been reported this month. M51 used 2345.5, 2597.5, 2601.5, 2817, 2569.5, 3720, 3838, 3846, 3882, 4018.5, 4039, 4527, 5407, 5471.5, 6430, 6940 kHz while FAV22 could be found on 3881 and 6825 kHz.

Lufoda70 copied the following lessons on 6825 kHz.

VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ

= Leçon 03-2/1 Vitesse 720 codée =

GDFSQ BWCXV SDARF STYUI QLOMA YTGDF RTGSR ZCWVS QNHNB VCGFT  
PMAIK NCVXG QJKIH KAUER SQFZR ATGDT 45273 KQLAP MOAUJ BCNGY  
YHTGF DJSUY RTZWX QCAVB 20197 HNDVX RYEGH DKJBD CNBVX WJQUW  
YHDGE ZUSHQ WNBXV ZUJAI KQLAP MQNHJ WKJIU YDHGF ETSFZ WMAPL  
YHUGF XBWHZ QJAHU WKQLM 37265 WVSDA BWNJK QLAPM OLQJH NWJIO  
TGETS WVXCQ AMPJU WNLQI KQLHJ 46276 WCXVD QGBNH AZUJK QLAMP  
PMLKJ NWBVF CHERZ AYHSU WNBJU YHSDQ WGBDV 34269 WNB DG QJAKI  
IKJHB CVXFE ZRSFQ AWNHJ QKALI NWBCG RTFSV 18056 XCDVF 25472  
YHDGX WNBQJ AUJGD WJNKL QMAPO LUJKD XCWVS ZRFAT WHQJY BUHFS

= Leçon 03-2/2 Vitesse 720 clair =

Valéry était là, et son regard me fait encore songer à la présence bleue,





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::: SK01 PSK31/DRM/RDFT
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Tom writes "Apparently the Cubans have changed frequencies for their digital sked at 1600. They were on 17480 but apparently have moved to 17515. 1700 sked is on 17435 as usual."

|       |       |      |       |                                                                                                                                               |
|-------|-------|------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 17480 | 29-10 | 1600 | RDFT  | Files 301115.txt, 301130.txt, 301145.txt.                                                                                                     |
| 17435 | 29-10 | 1700 | RDFT  | Files 301200.txt, 301215.txt, 301230.txt, 301245.txt,                                                                                         |
| 17480 | 31-10 | 1600 | DRM   | Files 311130.txt, 311145.txt                                                                                                                  |
| 17435 | 31-10 | 1700 | DRM   | File 311245.txt                                                                                                                               |
| 17480 | 01-11 | 1600 | RDFT  | Files 011100.txt, 011115.txt, 011130.txt, 011145.txt                                                                                          |
| 17435 | 01-11 | 1700 | RDFT  | Files 011200.txt, 011215.txt, 011230.txt, 011245.txt                                                                                          |
| 17515 | 06-11 | 1609 | RDFT  | Files 061130.txt & 061140.txt. Both files appear to be same garbage text file or possibly an encrypted file. New frequency for this schedule. |
| 17435 | 06-11 | 1700 | RDFT  | Files 061230.txt, 061240.txt, 061250.txt. Appeared to be encrypted text.                                                                      |
| 17515 | 07-11 | 1600 | DRM   | Unable to decode                                                                                                                              |
| 17435 | 07-11 | 1700 | DRM   | Unable to decode                                                                                                                              |
| 17515 | 07-11 | 1600 | RDFT  | Files 081100.txt, 081110.txt, 081120.txt, 081130.txt, 081140.txt. All files were same garbled or compressed text file as sent yesterday.      |
| 17435 | 08-11 | 1710 | RDFT  | Files 081230.txt, 081240.txt, 081250.txt. Files same compressed or encrypted file sent at 1600.                                               |
| 8095  | 09-11 | 1930 | RDFT  | AM carrier w/ RDFT signal                                                                                                                     |
| 9240  | 18-11 | 1000 | PSK31 | PSK220FEC modulated                                                                                                                           |
| 8097  | 23-11 | 1817 | RDFT  | File 42087654.zip                                                                                                                             |

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::: M42 / X06

Russian Governmental transmissions were copied on a number of frequencies. I'm sure that the list is not complete. Logs are most welcome.

```
6879.5 29-10 1957 Dept of State Comms, Moscow. Mode: CROWD-36. "11177" message.
8069.0 14-11 1727 Dept of State Comms, Moscow. Mode: 32-tone MFSK.
      Offline crypto traffic to unid Russian embassy on link 00063.
8105.0 31-10 2220 Mazielka call.
8123.0 15-11 1544 Dept of State Comms, Moscow. Mazielka call.
9105.0 15-11 1529 Dept of State Comms, Moscow. Mazielka call.
9305.0 15-11 1636 Dept of State Comms, Moscow. Mazielka call.
```

10175.5 31-10 1647 Dept of State Comms, Moscow. Mode: CROWD-36  
 10179.5 15-11 1624 Dept of State Comms, Moscow. Mode: CROWD-36  
 10218.5 15-11 1627 Dept of State Comms, Moscow. Mode: CROWD-36  
 10220.0 15-11 1636 Dept of State Comms, Moscow. Mode: 32-tone MFSK. Offline  
     crypto traffic to unid Russian embassy "JUA" on link 50035.  
 10767.0 13-11 1701 Dept of State Comms, Moscow. Mode: USB/32-tone MFSK.  
     Traffic to unlocated Russian embassy on link 00189. Offline  
     crypto lacking 5LG spacing.  
 11215.0 31-10 1947 Dept of State Comms, Moscow. Mazielka call.  
 12149.0 22-11 0939 Dept of State Comms, Moscow. Mazielka call.  
 12213.0 20-11 0931 Dept of State Comms, Moscow. Mazielka call.

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# \* MILITARY STATIONS \*

An impressive amount of CIS military logs this month. Well done!!!

Note from Fritz:

Around Nov. 20th VGK changed the transmitting station and the associated  
 parallel frequencies. A drastic decrease in field strength of the VLF  
 transmissions was the result. It is not clear yet, whether the set of parallel  
 frequencies depends of the transmitting station in use or of a certain sked.

## ::: RUSSIAN, CIS, UKRAINIAN MILITARY SSB & CW STATIONS (including M32)

- 18.1 Russian high command HQ Moscow, Chaldovar radio centre, Kyrgyzstan.  
     "rdl rdl rdl 89148 93557 89148 93557 89148 93557 k"  
 Russian high command HQ Moscow, Vileyka radio centre, Belarus.  
     Bee 36-50 w/ 75 Hz shift, sched bcast // 7657, 10452, 14664 kHz.  
 Russian high command:  
     ixxx xxx rdl rdl 02623 39254 astatizm 1981 4915 k"  
     "rdl rdl rdl t4393 3t645 t4393 3t645 t4393 3t645 k"  
     "xxx xxx RDL RDL 24301 72946 sulxfolen 7117 9353"  
     "xxx xxx RKS RKS RDL RDL 84128 81704 sulema 2275 6469 k"  
     "xxx xxx RKS RKS RDL RDL 92694 54760 konformizm 2794 7659 lento^nik  
     4626 3473 k"  
     "xxx xxx RDL RDL 68111 67401 densimetr 7125 6295 k"  
     "xxx xxx RJS RJS 32447 obkos 0848 8909 k"
- 21.1 Russian high command, unid tx site, Russia:  
     "rdl rdl rdl 80031 85714 k80031 85714 80031 85714i
- 27.3 Russian high command HQ Moscow, Khabarovsk radio centre, Russia.  
     Bee 36-50 w/ 75 Hz shift strategic bcast.

420.0 Russian Navy, Kaliningrad. Channel marker "P" : RDL messages  
 583.0 RMP: Russian Navy Baltic Fleet HQ, prob Primorsk tx site, Kaliningrad  
 "reo reo reo de rmp rmp" "qtc 693 138 19 1953 693 = sml = " // 4079 kHz.  
 Channel marker "P" was also on this frequency.  
 2230.5 RMIB: Russian Navy Vessel i=SML FOR RJH45 RJD38 RIF4=" "RMIB OK QRU K"  
 2815.5 CIS Mil. iMAT2 MAT2 MAT2 QTC ZVX AR. QTC 768 16 9 2207 768 = ZVX 163 =  
 2001 8052 5246 ... 8052 0913 Kî  
 G7A6, LJY5 QSL on frequency. i4YLJ de GLLW R 768? Kî  
 3217.0 Russian Mil. Msg for A8OK iE1B1 856 26 9 1902 856 = 425 = PPPPP NNIXA  
 BSFSR ... BSFSR POPWE 046 RPT AL QLN Kî  
 A8OK reads back message on QSX frequency 3393 kHz.  
 3826.0 Ukrainian Mil: 6GDB comms checks with FSW4, ALTC  
 3291.0 Russian Navy, Kaliningrad: RMP  
 3830.0 Russian Mil. "7TKW ER QTC 1 K"/B:"QRV K" "OK NW NW=947 70 28 2350=947=  
 (5FGs) K" into cfm-tfc "K5IH RPT PBL K"/"GR ? K" "7TKW R 947 K"/"QRU K"  
 3837.0 Russian Navy, Kaliningrad: RMP  
 4055.0 Russian Navy: RCV  
 4079.0 Russian Navy, Kaliningrad: RMP. Weather to collective REO: iREO de RMP  
 QTC 337 141 12 1957 337 = SML = PROGNOZ .J.O DY S 18 ^ASOW 13 DO 18  
 ^ASOW 15 NO%BR% BALTIJSKOE MORE RAJON ... 7 TIRE 12 MS = ARî  
 "reo reo reo de rmp rmp" "qtc 317" weather forecast for Baltic Sea  
 // 583 kHz.  
 Msg to REO: "PRIP PETERBURG 284 KARTA 27047 PORT SANKT PETERBURG 1 T^K  
 REJDOWYE chWARTOWNYE BO^KI SN%TY ... = AR"  
 4179.0 Russian Air Force: REA4  
 4471.0 Russian Mil: RDL  
 4517.0 RIT : Severomorsk RUS 04:06 CW/A1A rlo de rit qtc 6t4 38 15 0658 60  
 prognoz pogody  
 4537.5 RBE99 : Russian navy RUS 05:09 CW/A1A working duplex with unid  
 station rpt of msg 96351673545182 and qru  
 4604.0 Russian Navy: RIT wkg naval vessel RMLT.  
 4632.0 Russian Mil: ivvvvv k vvvv k t vvv k gqq4 de crde qtc k (interesting  
 string with reducing number of v's) "gqq4 de crde qyt6 zvo zag zms qyt6  
 r k. cykw cykw cykw de crde crde qtc4"  
 "vvv gqq4 de crde qyt6 zvo zag zms qyt6 r k"  
 "cykw cykw cykw de crde crde qtc4"  
 4580.5 Russian Navy: iRJD79 RJD79 RJD79 DE RAY85 QSA QRV Kî  
 iBE99 812 N05 812 = FOR RJD99 89775 . . . .'î  
 4952.0 Russian Navy: RIT wkg RAL59  
 5086.0 Russian Navy, Kaliningrad: RMP  
 5231.5 CIS Mil. TIYP clg YX8T  
 5268.0 Russian Mil: RDL  
 5393.0 Russian Navy: RCV wkg RBIZ for "QSA?" & "QYT4".  
 5438.0 Russian Mil: RDL  
 5916.0 Russian Navy: RCV  
 6825.0 CIS Mil. V9AU wkg GYDU "ok QCZ k"/"rpt al aa 17 k"/"rpt txt k"/"QRV k"  
 6342.0 Russian Mil.  
 6430.5 CIS Mil. "VVV" (11 times) "EEEEEEEE" repeating.

6850.5 Ukrainian Mil. UWA211 wkg UWA8 fr "QSA?" into "OK GD QSA4 OP NR2 SLD QTC GA?", "OK SLD NR86 GR 1T=777=27 11 1325=333=POL2M AKART NI6PO DARIL QSWOE ... =555=QSL? K", "SLV RPT K", "VVV UWA8 OM QSA1 SLV ZVP K", "SLV GUHOR"

6875.0 Russian Mil: GYDU

6913.5 Russian Mil. Enciphered Morse sched in progress. JCXZCYWX....

7018.0 REA4: AF HQ Moscow  
RIW: Naval HQ Moscow 1633 CW RGR70 de RIW QSA1 QLS1 K. Frequency shared with REA4.  
RGR70: Russian Warship 1639 CW RIW de RGR70 QSU1 QSX 8788 K. (RIW: OK QSU1 QWH 8788 K. RIW de RGR70 QSU1 QLS1 K) RIW de RGR70 QSU1 QSX 6501 K. Mark on 6501.

7030.0 Russian Mil. "xxx xxx ixje ixje 12923 sudakowyj 7111 9506 k"

7044.0 REA4: AF HQ Moscow  
"xxx xxx ixje ixje 12923 sudakowyj 7111 9506 k"

7702.0 CIS Military 1311 CW Enciphered Morse: chMQEWHIFQD^H%NDI X%,C ... PT%AGMDPHXKHEY ... K. SK and gone.

7824.0 Russian Mil: iao3r ao3r ao3r de jrl2 jrl2 qtc 32t 3t 11 11tt 32t = zaq 8t8 454 621 = ppppp ....†

7861.0 Heard again on 27-11 at 1325 UTC: NCS RAL2 radio checking with RDU2, RFH2, RHW2. This network rarely sends messages, mostly heard with radio checks. Heard since January 2000. Other frequencies are 4051, 4979, 6989, 10425, 13975. Other callsigns are RKY2, RHQ2, RL02.

7922.0 Russian Mil: F7VP duplex net QTA 590 to PSQ1 SGW2 and KANW.

7969.0 Ukrainian Mil: ijtqf jtqf de aegi aegi qtc 153 19 10 1048 153 = 740 = ppppp ....î

8130.0 Russian high command: "rdl rdl rdl 29512 27935 29512 27935 29512 27935" NO paralell bcast on VLF !!!!

9145.0 //11000 kHz. Russian Navy: RIW. Regular contact on 8345 or 12464 kHz with RDND, RMDZ, RMEG, RAL59, RHY73, RHM97, RH064, RGV82, RGR70, RCRE.

9479.5 Russian Mil: RDL

10201.0 RCV BSF HQ Sevastopol: Broadcasts on 10201 kHz of navigational warnings and meteo forecasts to RKZ, RIC87, RIP90. Artillery firing off the coast of Turkey announced. Many contacts on 12464 with RBIZ.

10308.0 Russian Navy: RIT wkg RAL59. Readability check (zzd) with no response, gives up after ca 10 min, and moves back to 11155 kHz

10540.0 RIW: Russian Navy wkg warship RMDZ. "rmdz de riw zkm ?"

11000.0 RIW: Russian Navy HQ Moscow.  
"rmdz de riw qyt4 qsx 12398 k"  
"rmdz de riw qrr3 qdw 1t54t k riw r k"

11155.0 RIT: Russian navy Northern Fleet, prob Murmashi tx site, Russia with unid Russian warship; "rmxv de rit" "qrr3 qdw 4821 ok"  
Contact on 12464 kHz with RAL59, RGR77, RMDZ, RHY73, RMXV.  
Flash messages:  
"xxx xxx RJI63 RJI63 77777 02208 54085 97067 01745 00222 06900 03000"  
"xxx xxx RAL48 RAL48 77777 02208 54085 97067 01745 00222 06900 03000"

Russian Navy: RIT wkg RAL59. Asks RAL59 to go to 4952 kHz. RAL59 not

heard. RIT calls RAL59 without any response, gives up, and blindcast 65 group telegram # 158 to collective address RAL59 by hand, using codeset 11111.

v v v r a l 5 9 r a l 5 9 r a l 5 9 d e r i t r i t q s a ? q t c k  
v v v r a l 5 9 r a l 5 9 r a l 5 9 d e r i t r i t q s a ? q t c k  
v v v r a l 5 9 r a l 5 9 r a l 5 9 d e r i t r i t q s a ? q t c k  
v v v r a l 5 9 r a l 5 9 r a l 5 9 d e r i t r i t q s a ? q t c k  
r i t 1 5 8 6 7 5 1 2 5 1 1 5 8 = s m l =  
1 1 1 1 1 5 2 9 0 9 5 8 4 6 8 1 6 5 8 2 0 4 5 9 0 7 9 7 3 2 6 1 3 2 8 7 0 6 6 0  
0 8 4 2 3 4 6 4 6 6 6 7 4 8 9 0 6 1 0 4 4 7 4 6 0 8 9 4 6 6 6 3 9 6 1 3 9 2 7 3  
8 9 7 3 0 4 3 2 5 3 8 4 2 7 5 9 4 9 6 1 0 3 5 3 4 9 1 8 3 5 6 4 5 ? 4 6 3 5 3 8  
9 2 1 0 ? 7 9 3 6 0 4 2 6 9 4 8 7 7 2 7 5 1 6 8 0 ? 8 1 9 0 i i i i 8 7 7 2 7  
5 1 6 8 0 2 8 1 9 8 9 1 5 5 6 3 7 5 1 0 4 1 4 5 5 3 5 4 3 0 1 8 4 2 3 3 3 9 9 6  
3 4 3 2 6 0 4 4 4 1 0 0 3 3 6 3 6 4 8 4 5 1 6 2 2 5 8 3 2 1 0 2 6 7 6 1 8 0 2 6  
1 5 0 7 5 5 7 0 9 4 0 2 1 3 1 4 4 0 0 1 6 2 9 4 6 7 5 4 0 8 8 8 2 7 7 7 4 5 2 0  
1 1 8 0 3 7 0 7 2 2 1 4 1 2 3 5 0 0 0 1 1 9 5 9 0 2 3 5 7 2 i i i i 5 0 0 0 1  
1 9 5 9 0 2 3 5 7 3 9 9 9 8 6 1 6 6 8 1 9 4 0 8 4 7 1 2 3 5 5 0 0 5 1 3 7 3 7 4  
6 3 2 1 7 0 5 0 6 5 = a r

u u u r d l r d l r d l  
1 1 1 1 1 5 7 7 4 3 4 t 1 4 4 5 t 6 8 2 5 t 6 8 2 t 6 t 9 1 5 7 4 3 3 3 t t 6 5  
2 2 6 4 3 3 9 6 7 5 3 8 6 6 7 2 8 7 2 1 5 6 6 9 4 9 6 8 1 3 6 1 5 6 5 5 9 6 4 2  
6 7 4 1 1 t 8 3 3 5 6 4 2 7 8 7 9 4 6 8 1 5 8 8 5 t 6 5 1 7 8 5 2 6 t 9 t 8 6 9  
8 1 2 6 2 5 1 t 3 5 5 8 6 1 3 9 9 8 2 3 5 3 3 7 5 1 8 6 3 6 1 6 4 t t 9 9 7 3 4  
9 t 6 9 t 4 6 3 t 2 5 5 1 2 1 7 8 5 2 2 4 3 4 1 4 4 8 7 8 9 6 1 t 8 9 5 6 t 4 6  
5 6 1 5 6 6 7 5 t 5 1 2 3 3 4 8 4 8 5 t 7 5 3 8 t 7 t 8 1 2 6 8 t 7 1 t 5 t 4 7 k

11354.0 Russian Naval Aircraft wkg PRIBOJ  
12398.0 RMDZ, Unid Russian warship.  
14014.0 Russian Mil. Comms checks + messages. Call signs: GN2Z, 2KLJ, XWAA,  
DRHQ, TXYT, WRSV, Q9BL, 5JOR, PZNN, 1K6S, PNAZ, WBYT, NAC3.  
"ZCM ZTK ZNF QYT6 K"  
14104.0 Russian Mil: RDL  
14312.0 Russian Mil: MNHN  
14332.0 Russian Mil  
14336.0 Russian Mil: P3S8  
18107.0 Russian Mil: RDL  
20096.0 Russian Mil: RDL

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\* UTILITY ROUNDUP \*

::: PIRATE BEACONS

The new dasher on top of a mountain in Colorado transmits on 10245.4 kHz

|        |     |                                                                                                                                                                             |
|--------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 420    | MX  | CW 8-11-2007 0954. Channel marker "P" + RDL messages                                                                                                                        |
| 583    | MX  | Channel marker "P", 1728 UTC, 20-11 (AB). Messages to collective callsign REO: "reo reo reo de rmp rmp" "qtc 693 138 19 1953 693 = sml = " // 4079 kHz 1735 UTC, 19-11 (TJ) |
| 2129.5 | M51 | CW 31-10-2007 2350 (ALF)<br>"BT NR xxx BT"                                                                                                                                  |
| 2345.5 | M51 | CW 29-11-2007 2130 (MPJ)                                                                                                                                                    |

|        |      |                                                                                              |
|--------|------|----------------------------------------------------------------------------------------------|
| 2569.5 | M51  | French Mil = NR 78 N 29 22:30:23 1984 = //2597.5, 2601.5<br>CW 20-11-2007 2209 (MPJ)         |
| 2597.5 | M51  | French mil training net = NR 29 N 20 23:08:59 1984 =<br>CW 29-11-2007 2130 (MPJ)             |
| 2601.5 | M51  | French Mil = NR 78 N 29 22:30:23 1984 =<br>CW 29-11-2007 2130 (MPJ)                          |
| 2626   | E10  | French Mil = NR 78 N 29 22:30:23 1984 =<br>AM 1-11-2007 2032 (AB)<br>FTJ                     |
| 2817   | M51  | CW 20-11-2007 2209 (MPJ)<br>French mil = NR 29 N 20 23:08:59 1984 = //2569.5//5471.5         |
| 3167   | MX   | CW 3-11-2007 2315 (BCI)<br>Channel marker "P"                                                |
| 3230   | E10  | AM 1-11-2007 2032 (AB)<br>in progress                                                        |
| 3270   | E10  | AM 1-11-2007 2032 (AB)<br>ULX2                                                               |
| 3360   | E10  | AM 1-11-2007 2032 (AB)<br>in progress                                                        |
| 3397   | M89  | CW 29-10-2007 1910 (BCI)<br>T3AP de QF3K                                                     |
| 3397   | M89  | CW 29-10-2007 2225 (BCI)<br>T3AP de QF3K                                                     |
| 3397   | M89  | CW 16-11-2007 1613 (MPJ)<br>V T3AP de QF3K. // 8437                                          |
| 3415   | E10  | AM 1-11-2007 2032 (AB)<br>ART2                                                               |
| 3525   | M45  | CW 1-11-2007 Thu 1802 (HFD)<br>525 3525 //4025                                               |
| 3756   | S30  | CW 1-11-2007 2032 (AB)<br>Pip                                                                |
| 3803   | M18  | CW 2-11-2007 Fri 2056 (FN)<br>0059 0059 0059...                                              |
| 3838   | M51  | CW 28-11-2007 2105 (DL8AAM)<br>French Military CW Training = NR 31 N 28 22:05:37 1984 =      |
| 3840   | E10  | AM 1-11-2007 2032 (AB)<br>YHF2                                                               |
| 3846   | M51  | CW 28-11-2007 2124 (DL8AAM)<br>French Military CW Training = NR 34 N 28 22:24:18 1984 =      |
| 3882   | M51  | CW 28-11-2007 2117 (DL8AAM)<br>French Military CW Training = NR 33 N 28 22:17:59 1984 =      |
| 4018.5 | M51  | CW 16-11-2007 1984 (MPJ)<br>French Army NR 43 N 13 18:35:05 1984 = VVUWW FTZFG<br>..." // 40 |
| 4025   | M45  | CW 1-11-2007 Thu 1802 (HFD)<br>525 3525 //3525                                               |
| 4028.0 | V02a | AM 16-11-2007 Fri 0500 (Rch)<br>A 45771 47727 80775 (YL/SS) Repeat of 0400 broadcast         |

|        |      |                                                            |
|--------|------|------------------------------------------------------------|
|        |      | on 4479 KHz                                                |
| 4035.0 | V02a | AM 12-11-2007 Mon 0400 (GL)                                |
| 4035.0 | V02a | AM 19-11-2007 Mon 0400 (Rch)                               |
|        |      | A 62060 36274 46041                                        |
| 4043   | MX   | CW 1-11-2007 1848 (CK)                                     |
|        |      | Channel marker "P"                                         |
| 4141   | M01B | CW 2-11-2007 Fri 1820 (HFD)                                |
|        |      | 210-274/23=44667 //4848                                    |
| 4174.0 | V02  | USB 19-11-2007 Mon 0300 (TB)                               |
| 4181   | E11  | USB 15-11-2007 Thu 1630 (HFD)                              |
|        |      | 287/00                                                     |
| 4231.0 | XSL  | PSK 20-11-2007 0649 (Jon-FL)                               |
|        |      | Japanese Slot Machine                                      |
| 4329.0 | V02a | AM 7-11-2007 Wed 0400 (Rch)                                |
|        |      | A xxxxx 64467 32661 (YL/SS)                                |
| 4441   | G06  | AM 17-11-2007 Sat 2200 (HFD)                               |
|        |      | 843/0                                                      |
| 4444.5 | M41  | Russian Morse Radar Tracking Network: EQM2 27-11-2007 (FN) |
| 4479.0 | V02a | AM 16-11-2007 Fri 0400 (Rch)                               |
|        |      | A 45771 47727 80775 (YL/SS)                                |
| 4483   | E07  | AM 1-11-2007 Thu 2150 (HFD)                                |
|        |      | 744:1-216/43=80929                                         |
| 4505   | M01B | CW 16-11-2007 Fri 2202 (HFD)                               |
|        |      | 419 much QRM                                               |
| 4519   | G06  | AM 22-11-2007 Thu 1830 (HFD)                               |
|        |      | 271-835/23=13987                                           |
| 4557.9 | MX   | CW 16-11-2007 2108 (PPA)                                   |
|        |      | S Beacon                                                   |
| 4558.0 | MX   | CW 16-11-2007 2109 (PPA)                                   |
|        |      | C Beacon                                                   |
| 4560   | E10  | AM 1-11-2007 2032 (AB)                                     |
|        |      | YHF2                                                       |
| 4570   | G06  | AM 5-11-2007 Mon 2000 (HFD)                                |
|        |      | 308/0                                                      |
| 4574.0 | M21  | CW 18-11-2007 0709 (PPA)                                   |
|        |      | Russian air defence                                        |
| 4580   | E06  | AM 11-11-2007 1930 (MUK)                                   |
|        |      | 690 00000                                                  |
| 4580.0 | E06  | AM 18-11-2007 Sun 1930 (PoRus)                             |
|        |      | E06 OM with "000 00" for "690". S9 +20 dB. Very strong!    |
| 4585   | E06  | AM 4-11-2007 Sun 1930 (HFD)                                |
|        |      | 690-583/177=51562                                          |
| 4585   | E06  | AM 4-11-2007 Sun 1930 (FN)                                 |
|        |      | 690 583 177                                                |
| 4590   | E06  | AM 5-11-2007 Mon 2003 (HFD)                                |
|        |      | ip                                                         |
| 4603.0 | S06  | AM 14-11-2007 1930 (PPA)                                   |
|        |      | Russian OM 122 122 122 307 15 307 15 ends 00000            |



|        |      |                                                                                           |
|--------|------|-------------------------------------------------------------------------------------------|
| 4605   | M01B | CW 8-11-2007 Thu 2132 (HFD)<br>514                                                        |
| 4625   | S28  | AM 1-11-2007 2032 (AB)<br>Buzzer                                                          |
| 4625.0 | S28  | AM 13-11-2007 2019 (PPA)<br>UVB76 : Lozhki RUS. Channel marker for Army warning<br>system |
| 4639   | M21  | CW 8-11-2007 2229 (MPJ)<br>Russian Air Defence (PV0) =990128??0?????<br>=990129??00?????  |
| 4639.0 | M21  | CW 15-11-2007 0552 (PPA)<br>Russian air defence =99t852??8?????                           |
| 4707.8 | M??  | CW 16-11-2007 2218 (MPJ)<br>Unid ... 29205 99171 99171 01725 01725 ... = = 456 456 53 53  |
| 4760   | E06  | AM 2-11-2007 Fri 2130 (HFD)<br>472-287/30=03255                                           |
| 4761   | M14  | CW 14-11-2007 Wed 1920 (HFD)<br>748-472/26=11884                                          |
| 4762   | M14  | CW 14-11-2007 Wed 1930 (FN)<br>i.p., ends: 472 472 26 26 00000                            |
| 4762   | M14  | CW 28-11-2007 1920 (RiN)<br>748 472 26 - 11884 etc                                        |
| 4792   | G06  | AM 9-11-2007 Fri 1936 (FN)<br>i.p., ends: 835 835 23 23 00000                             |
| 4836   | E06  | AM 15-11-2007 Thu 1943 (FN)<br>counting "123456 123456 .."                                |
| 4836   | E06  | AM 15-11-2007 Thu 2030 (FN)<br>321 287 30                                                 |
| 4848   | M01B | CW 2-11-2007 Fri 1820 (HFD)<br>210-274/23=44667 //4141                                    |
| 4894   | E07  | AM 12-11-2007 2140 (MUK)<br>998-1 ?????                                                   |
| 4894   | E07  | AM 21-11-2007 Wed 2140 (HFD)<br>998:1=184/49=89504                                        |
| 4951.5 | M21  | CW 9-11-2007 1740 (MPJ)<br>Russian Air Defence =992039??0????? =992040??0?????            |
| 4951.5 | M21  | CW 24-11-2007 1605 (MPJ)<br>Russian Air Defence =991905??0?????                           |
| 4978   | M12  | CW 7-11-2007 Wed 2040 (FN)<br>979 1 3699 167                                              |
| 4959   | M41  | Russian Morse Radar Tracking Network: EQM2 5-11-2007 (FN)                                 |
| 4985   | M41  | Russian Morse Radar Tracking Network: MEW5 27-11-2007 (FN)                                |
| 5070   | S06  | AM 6-11-2007 Tue 1500 (HFD)<br>537-210/6=09876                                            |
| 5091   | E10  | AM 22-11-2007 1630 (PPA)<br>JSR // 6912                                                   |
| 5142   | M12  | CW 4-11-2007 Sun 2020 (FN)<br>191 1 814 271                                               |

|        |      |                                                                                               |
|--------|------|-----------------------------------------------------------------------------------------------|
| 5142   | M12  | CW 7-11-2007 Wed 2020 (FN)<br>191 1 814 271 rpt of 4-11-2007 1940z                            |
| 5149   | E11A | USB 6-11-2007 Tue 2050 (HFD)<br>338/10=86303                                                  |
| 5153.7 | MX   | CW 1-11-2007 1749 (AB)<br>Cluster beacon "D"                                                  |
| 5154   | MX   | CW 29-11-2007 2152 (MPJ)<br>C Beacon, Moscow                                                  |
| 5200   | M22  | CW 28-11-2007 2146 (DL8AAM)<br>4XZ: Israeli Navy vvv-marker                                   |
| 5290   | E06  | AM 28-11-2007 Wed 2100 (HFD)<br>813-792/51=96027                                              |
| 5310   | S06  | AM 1-11-2007 Thu 1240 (HFD)<br>314 weak                                                       |
| 5402.5 | M41  | Russian Morse Radar Tracking Network. 19-11-2007 (FN)                                         |
| 5407   | M51  | CW 7-11-2007 1741 (MPJ)<br>NR 88 N 0718:40:59 1984 = IKCAE ZNENK LXLAO ...                    |
| 5415   | G06  | AM 5-11-2007 Mon 1900 (HFD)<br>308:0                                                          |
| 5422.0 | E03  | USB 18-11-2007 Sun 2205 (Rch)<br>Calling 58016-very difficult copy,                           |
| 5435   | E10  | AM 1-11-2007 2032 (AB)<br>ART2                                                                |
| 5440   | S06  | AM 26-11-2007 Mon 2215 (HFD)<br>893:0                                                         |
| 5447   | E07  | AM 1-11-2007 Thu 2130 (HFD)<br>744:1-216/43=80929                                             |
| 5460   | S06  | AM 16-11-2007 Fri 0600 (HFD)<br>934-201/5=25109                                               |
| 5465.9 | MX   | CW 14-11-2007 1737 (WP3)<br>R: Russian Army Izhevsk                                           |
| 5471.5 | M51  | CW 20-11-2007 2209 (MPJ)<br>French mil training net = NR 29 N 20 23:08:59 1984 =              |
| 5500   | M22  | CW 28-11-2007 2142 (DL8AAM)<br>4XZ: Israeli Navy vvv-marker                                   |
| 5637   | V21  | USB 13-11-2007 1404 (WES)<br>Cuban babbler                                                    |
| 5644   | M89  | CW 23-11-2007 2304 (BCI)<br>V T3AP de QF3K                                                    |
| 5644   | M89  | CW 28-11-2007 2322 (DL8AAM)<br>V T3AP T3AP T3AP de QF3K QF3K +<br>"COMM/0804/LZ186/9708/9707" |
| 5746   | E03  | USB 1-11-2007 2100 (AB)<br>LP id 23440. Came up at 2109 UTC                                   |
| 5760   | E06  | AM 4-11-2007 Sun 1830 (HFD)<br>690-583/177=51562                                              |
| 5760.0 | E06  | AM 18-11-2007 Sun 1830 (PoRus)<br>E06 OM with "000 00" for "690". S6 - S8. Good signal.       |

|        |      |                                                                                          |
|--------|------|------------------------------------------------------------------------------------------|
| 5771   | V02a | AM 20-11-2007 1500 (N2UHC)<br>Cuban V2a w/ 5F msgs                                       |
| 5778   | M12  | CW 7-11-2007 Wed 2020 (FN)<br>979 1 3699 167                                             |
| 5799   | M08a | CW 1-11-2007 1400 (Jon-FL)<br>late start at 1408z, no callup                             |
| 5800   | M08a | MCW 8-11-2007 0604 (N2UHC)<br>Cuban w/ 5F msgs                                           |
| 5810   | S06  | AM 13-11-2007 Tue 0800 (HFD)<br>418                                                      |
| 5820   | S06  | AM 6-11-2007 Tue 1730 (HFD)<br>192-750/63=27775                                          |
| 5898   | M08a | CW 1-11-2007 0500 (Jon-FL)<br>late start, no callup                                      |
| 5898   | M08a | CW 1-11-2007 0800 (Jon-FL)<br>late start, no callup                                      |
| 5900   | M08a | MCW 8-11-2007 0410 (N2UHC)<br>Cuban w/ 5F msgs                                           |
| 5928   | E07  | AM 7-11-2007 Wed 2120 (HFD)<br>no msg, only carrier                                      |
| 5938   | E07  | AM 7-11-2007 Wed 1840 (HFD)<br>199:1 BC QRM                                              |
| 6280   | E11A | USB 20-11-2007 Tue 1200 (HFD)<br>742/72=#5405                                            |
| 6337   | S06  | AM 6-11-2007 Tue 1510 (HFD)<br>537-210/6=09876                                           |
| 6379   | M22  | CW 21-11-2007 0452 (N2UHC)<br>4XZ CW mrkr                                                |
| 6428   | E10  | AM 19-11-2007 2024 (RiN)<br>ABC                                                          |
| 6430   | M51  | CW 29-11-2007 0050 (Jon-FL)<br>French Mil CW training                                    |
| 6430   | M51  | CW 29-11-2007 2334 (MPJ)<br>French Mil training "... LQBFK UECFM QTYKX ..." poor copy    |
| 6430   | MX   | CW 24-11-2007 2009 (AB)<br>Channel marker "V". New freq, ex 7002 kHz                     |
| 6430   | MX   | CW 27-11-2007 1812 (AB)<br>Channel marker "V"                                            |
| 6430   | MX   | CW 28-11-2007 Wed 2225 (AB)<br>Channel marker "V". Good audible during the past 4 nights |
| 6529   | V21  | USB 5-11-2007 1400 (WES)<br>Cuban babbler                                                |
| 6575   | M12  | AM 28-11-2007 1758 (RiN)<br>HNC-Z                                                        |
| 6768.0 | V02a | USB 12-11-2007 Mon 0400 (GL)<br>Fair signal //4035 KHz AM .. Spanish Numbers             |
| 6777   | E07  | AM 1-11-2007 Thu 2110 (HFD)<br>744:1-216/43=80929                                        |

|        |      |                                                                                              |
|--------|------|----------------------------------------------------------------------------------------------|
| 6792   | M14  | CW 14-11-2007 Wed 1950 (FN)<br>i.p., ends: 564 564 30 30 00000                               |
| 6792   | M24  | CW 6-11-2007 Tue 1640 (FN)<br>ip, ends: 345 345 126 126 00000                                |
| 6825   | M51  | CW 14-11-2007 1008 (LUF)<br>FAV22 QLH 3881/6825 KHZ LECON 03-2/1 VITESSE 720                 |
| 6825   | M51  | CW 24-11-2007 0853 (PPA)<br>French mil training net = nr 90 n 21 09:53:00 1984 =             |
| 6825.0 | M08a | CW 13-11-2007 Tue 0622 (ST)<br>In progress                                                   |
| 6826   | M08a | MCW 20-11-2007 0605 (N2UHC)<br>Cuban M8a w/ 5F msgs                                          |
| 6840   | E10  | AM 1-11-2007 2032 (AB)<br>EZI2                                                               |
| 6840   | E10  | AM 24-11-2007 1600 (PPA)<br>EZI2                                                             |
| 6840   | M89  | CW 22-11-2007 1820 (PPA)<br>Chinese mil. VVV Q2M Q2M Q2M DE NYZ NYZ                          |
| 6854   | M08a | CW 1-11-2007 2200 (Jon-FL)<br>fast version                                                   |
| 6854   | M08a | CW 28-11-2007 2215 (DL8AAM)<br>Cuban Intelligence "+++ UIRDI UIRDI UIRDI UIRDI UIRDI === ... |
| 6855   | V02a | AM 1-11-2007 2100 (Jon-FL)<br>late start at 2105z, no callup, Q                              |
| 6855.0 | V02  | USB 19-11-2007 Mon 0300 (TB)                                                                 |
| 6855.0 | V02a | AM 8-11-2007 Thu 0021 (CAM)<br>ssyl5f atencion 17840 81347 18288                             |
| 6855.0 | V02a | AM 8-11-2007 Thu 2101 (CAM)<br>ssyl5f atencion 17840 81347 18288                             |
| 6855.0 | V02a | AM 11-11-2007 Sun 2102 (CAM)<br>SSYL5F Atencion 21632 73400 83166                            |
| 6855.0 | V02a | AM 23-11-2007 Fri 2100 (DM)<br>in progress                                                   |
| 6855.0 | V02a | AM 27-11-2007 Tue 2106 (CAM)<br>SSYL5F started late                                          |
| 6855.0 | V02c | AM 12-11-2007 Mon 2100 (ST)<br>Relay stayed on after transmission.                           |
| 6865   | E06  | AM 28-11-2007 Wed 2000 (HFD)<br>813-792/51=96027                                             |
| 6867.0 | V02a | AM 20-11-2007 Tue 1600 (Jon-FL)<br>A 73170 84577 06268                                       |
| 6880   | S06  | AM 7-11-2007 Wed 0820 (HFD)<br>471-926/5=95758                                               |
| 6904   | M12  | CW 4-11-2007 Sun 1940 (FN)<br>257 1 4264 109                                                 |
| 6904   | M12  | CW 5-11-2007 Mon 1940 (FN)<br>257 1 9835 102                                                 |
| 6912   | E10  | AM 22-11-2007 1630 (PPA)                                                                     |

|        |     |                                                                                          |
|--------|-----|------------------------------------------------------------------------------------------|
|        |     | JSR //5091                                                                               |
| 6917   | M12 | CW 4-11-2007 Sun 2000 (FN)<br>191 1 814 271                                              |
| 6917   | M12 | CW 7-11-2007 Wed 2000 (FN)<br>191 1 814 271 rpt of 4-11-2007 1940z                       |
| 6920   | S06 | AM 26-11-2007 Mon 2115 (HFD)<br>893:0                                                    |
| 6931   | E07 | AM 7-11-2007 Wed 2100 (HFD)<br>no msg only carrier                                       |
| 6931   | E07 | AM 12-11-2007 2100 (MUK)<br>998-1 18?/49                                                 |
| 6931   | E07 | AM 21-11-2007 Wed 2100 (HFD)<br>998:1                                                    |
| 6959   | E03 | USB 1-11-2007 2000 (AB)<br>LP id 68877                                                   |
| 6959   | E03 | USB 1-11-2007 2100 (AB)<br>LP id 23440                                                   |
| 6959   | E03 | USB 22-11-2007 2005 (PPA)<br>British intelligence CYP //9251                             |
| 6959.0 | E03 | USB 12-11-2007 Mon 2230 (ST)<br>In progress. Barely audible, but it is there.            |
| 6959.0 | E03 | USB 16-11-2007 Fri 2000 (SHER)<br>Fair reception here in the North East coast of the US. |
| 6978   | M12 | CW 7-11-2007 Wed 2000 (FN)<br>979 1 3699 167                                             |
| 6982   | E07 | AM 7-11-2007 Wed 1820 (HFD)<br>199:1 BC QRM                                              |
| 6986   | E10 | AM 25-11-2007 0735 (PPA)<br>ART message 31 5L groups                                     |
| 7000   | M22 | CW 28-11-2007 2035 (DL8AAM)<br>4XZ: Israeli Navy vvv-marker                              |
| 7000.0 | M22 | CW 28-11-2007 1613 (AB)<br>4XZ ° Israel Navy Haifa                                       |
| 7038.0 | MX  | CW 14-11-2007 0900 (WP3)<br>C: Rus Navy Moscow                                           |
| 7038.7 | MX  | CW 1-11-2007 1749 (AB)<br>Cluster beacon "D"                                             |
| 7038.8 | MX  | CW 1-11-2007 1749 (AB)<br>Cluster beacon "P"                                             |
| 7038.9 | MX  | CW 1-11-2007 1749 (AB)<br>Cluster beacon "S"                                             |
| 7038.9 | MX  | CW 14-11-2007 0900 (WP3)<br>S: Rus Navy Severomorsk                                      |
| 7039   | MX  | CW 1-11-2007 1749 (AB)<br>Cluster beacon "C"                                             |
| 7039.2 | MX  | CW 28-11-2007 1412 (N2UHC)<br>Cluster beacon "F" Vladivostok                             |
| 7057.3 | M89 | CW 6-10-2007 1618 (IARUMS)                                                               |

|        |     |                                                              |
|--------|-----|--------------------------------------------------------------|
| 7058.6 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 25-10-2007 1649 (IARUMS) |
| 7059.1 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 5-10-2007 1920 (IARUMS)  |
| 7059.7 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 22-10-2007 1851 (IARUMS) |
| 7060.0 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 16-10-2007 2130 (IARUMS) |
| 7060.1 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 16-10-2007 1717 (IARUMS) |
| 7060.4 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 19-10-2007 1658 (IARUMS) |
| 7060.5 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 19-10-2007 2047 (IARUMS) |
| 7061.5 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 12-10-2007 1728 (IARUMS) |
| 7061.7 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 12-10-2007 2016 (IARUMS) |
| 7061.8 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 2-10-2007 2148 (IARUMS)  |
| 7061.8 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 15-10-2007 1944 (IARUMS) |
| 7062.3 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 3-10-2007 1725 (IARUMS)  |
| 7063.0 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 22-10-2007 2110 (IARUMS) |
| 7063.3 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 31-10-2007 1844 (IARUMS) |
| 7063.4 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 10-10-2007 2025 (IARUMS) |
| 7063.7 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 17-10-2007 2123 (IARUMS) |
| 7065.0 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 14-10-2007 2131 (IARUMS) |
| 7065.1 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 14-10-2007 2012 (IARUMS) |
| 7065.2 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 18-10-2007 1924 (IARUMS) |
| 7067.4 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 13-10-2007 2156 (IARUMS) |
| 7067.9 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 11-10-2007 2116 (IARUMS) |
| 7069.0 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 10-10-2007 2012 (IARUMS) |
| 7069.1 | M89 | V CP17 CP17 CP17 de L9CC L9CC<br>CW 10-10-2007 2102 (IARUMS) |
| 7150   | S06 | AM 2-11-2007 Fri 0700 (HFD)                                  |

|        |      |                                                              |
|--------|------|--------------------------------------------------------------|
|        |      | 196-208/5=62555                                              |
| 7317   | E11  | USB 7-11-2007 Wed 0915 (HFD)<br>284/00                       |
| 7317   | E11  | USB 19-11-2007 0915 (MUK)<br>284/00                          |
| 7317   | M03  | CW 5-11-2007 Mon 0915 (FN)<br>284/00                         |
| 7317   | M03  | CW 5-11-2007 Mon 0915 (HFD)<br>284/00                        |
| 7335   | S06  | AM 7-11-2007 Wed 0830 (HFD)<br>745-921/6=14094               |
| 7337   | E03  | USB 1-11-2007 2200 (AB)<br>LP id unreadable                  |
| 7371   | E11  | USB 15-11-2007 Thu 0715 (HFD)<br>382/00                      |
| 7436   | S06  | AM 5-11-2007 Mon 1600 (HFD)<br>176-208/5=71001               |
| 7439   | E11A | USB 2-11-2007 Fri 1230 (HFD)<br>314/77=03591 40569           |
| 7439.0 | E11  | LSB 16-11-2007 Fri 1230 (PoRus)<br>YL "Oblique" for "312/00" |
| 7440   | S06  | AM 13-11-2007 Tue 0810 (HFD)<br>418                          |
| 7520   | S06  | AM 7-11-2007 Wed 1910 (HFD)<br>371-928/5=21767               |
| 7664   | M03  | CW 7-11-2007 Wed 1330 (FN)<br>278/35 == 45999                |
| 7670   | S06  | AM 6-11-2007 Tue 1630 (HFD)<br>192-750/63=27775              |
| 7749   | E11  | USB 13-11-2007 Tue 1030 (HFD)<br>312/00                      |
| 7749   | E11a | USB 2-11-2007 Fri 1030 (FN)<br>314/77 attn 03591             |
| 7798   | E11  | USB 13-11-2007 0915 (MUK)<br>221/00                          |
| 7798   | E11  | USB 13-11-2007 Tue 0915 (HFD)<br>221/00                      |
| 7798   | E11b | USB 7-11-2007 Wed 0915 (FN)<br>220/38 attn 77777 77777 23070 |
| 7798   | E11B | USB 7-11-2007 Wed 0915 (HFD)<br>220/38=77777 77777 23070     |
| 7830   | E06  | AM 14-11-2007 Wed 1600 (HFD)<br>309-854/265=79121            |
| 7840   | S06  | AM 7-11-2007 Wed 0830 (HFD)<br>471-926/5=95758               |
| 7865   | S06  | AM 1-11-2007 Thu 1230 (HFD)<br>314 weak                      |
| 7887   | V02a | AM 31-10-2007 2000 (N2UHC)                                   |

|        |      |                                                                                        |
|--------|------|----------------------------------------------------------------------------------------|
|        |      | Cuban w/ 45151 01704 76725 callup & 5F msgs                                            |
| 7887   | V02a | AM 1-11-2007 2000 (Jon-FL)<br>late start at 2006z, no callup                           |
| 7887   | V02a | AM 5-11-2007 2000 (N2UHC)<br>Cuban w/ 57546 12572 17067 callup & 5F msgs               |
| 7887   | V02a | AM 8-11-2007 2013 (N2UHC)<br>Cuban w/ 5F msgs                                          |
| 7887.0 | E03  | USB 5-11-2007 2100 (PPA)<br>Lincolnshire Poacher id 57051 //9251                       |
| 7887.0 | V02a | AM 6-11-2007 Tue 0020 (CAM)<br>ssyl5f in progress                                      |
| 7887.0 | V02a | AM 6-11-2007 2015 (PPA)<br>Cuban DGI SS YL reading 5F msg                              |
| 7887.0 | V02a | AM 6-11-2007 Tue 2023 (CAM)<br>ssyl5f in progress                                      |
| 7887.0 | V02a | AM 11-11-2007 Sun 2001 (CAM)<br>SSYL5F Atencion 21632 73400 83166                      |
| 7887.0 | V02a | AM 16-11-2007 Fri 2012 (CAM)<br>ssyl5f in progress                                     |
| 7887.0 | V02a | AM 16-11-2007 Fri 2012 (CAM)<br>ssyl5f k                                               |
| 7887.0 | V02a | AM 18-11-2007 Sun 2003 (CAM)<br>ssyl5f atencion 55721 55658 38313                      |
| 7918.0 | E10  | AM 11-11-2007 1230 (PPA)<br>YHF YL with 5L message group 47                            |
| 7931   | M12  | CW 4-11-2007 Sun 1920 (FN)<br>257 1 4264 109                                           |
| 7931   | M12  | CW 5-11-2007 Mon 1920 (FN)<br>257 1 9835 102                                           |
| 7931.0 | M12  | CW 7-11-2007 1820 (PPA)<br>257 257 257 1 => single 5F QTC ends TTT TTT                 |
| 7970   | S06  | AM 6-11-2007 Tue 1500 (HFD)<br>493:0                                                   |
| 7974.0 | M08a | CW 5-11-2007 2100 (PPA)<br>Cuban DGI 5L msg cut numbers                                |
| 8009   | M08a | CW 31-10-2007 2003 (N2UHC)<br>Cuban w/ 5F msgs                                         |
| 8009   | M08a | CW 21-11-2007 2030 (N2UHC)<br>Cuban w/ 5F msgs                                         |
| 8069.0 | M42  | 32-toneMFSK 14-11-2007 1727 (LDO)<br>Dep. of State Comms Moscow. traffic on link 00063 |
| 8088   | G11  | USB 7-11-2007 Wed 0730 (HFD)<br>508/00                                                 |
| 8088.0 | G11  | USB 21-11-2007 Wed 0730 (PoRus)<br>with "00" for "508" (508/00) Weak signal, S3 - S5.  |
| 8088.0 | G11  | USB 28-11-2007 Wed 0730 (PoRus)<br>G11 YL "Strich" with "00" for "508" - "508/00"      |
| 8095   | SK01 | RDFT 9-11-2007 1930 (N2UHC)                                                            |



|        |      |                                                         |
|--------|------|---------------------------------------------------------|
|        |      | Cuban AM carrier w/ RDFT signal                         |
| 8097   | M08a | MCW 29-10-2007 1825 (N2UHC)                             |
|        |      | Cuban w/ 5F msgs                                        |
| 8097   | M08a | MCW 29-10-2007 1911 (N2UHC)                             |
|        |      | Cuban bdcst up late, 5F msgs                            |
| 8097   | M08a | MCW 31-10-2007 1814 (N2UHC)                             |
|        |      | Cuban w/ 5F msgs                                        |
| 8097   | M08a | CW 1-11-2007 1800 (Jon-FL)                              |
|        |      | dropout                                                 |
| 8097   | M08a | MCW 5-11-2007 1809 (N2UHC)                              |
|        |      | Cuban w/ 5F msgs                                        |
| 8097   | M08a | MCW 5-11-2007 1903 (N2UHC)                              |
|        |      | Cuban w/ 5F msgs                                        |
| 8097   | M08a | MCW 12-11-2007 1802 (N2UHC)                             |
|        |      | Cuban w/ 5F msgs                                        |
| 8097   | M08a | MCW 12-11-2007 1915 (N2UHC)                             |
|        |      | Cuban w/ 5F msgs                                        |
| 8097   | M08a | MCW 19-11-2007 1800 (N2UHC)                             |
|        |      | Cuban M8a w/ 5F msgs                                    |
| 8097   | M08a | MCW 20-11-2007 1810 (N2UHC)                             |
|        |      | Cuban M8a w/ 5F msgs                                    |
| 8097   | M08a | MCW 21-11-2007 1806 (N2UHC)                             |
|        |      | Cuban w/ 5F msgs                                        |
| 8097   | M08a | MCW 23-11-2007 1903 (N2UHC)                             |
|        |      | Cuban M8a w/ 5F msgs                                    |
| 8097   | SK01 | RDFT 23-11-2007 1817 (N2UHC)                            |
|        |      | Cuban AM carrier w/ RDFT signal, sent file 42087654.zip |
| 8097.0 | M08a | MCW 10-11-2007 Sat 1901 (CAM)                           |
|        |      | UDRDA WTRII RRNID                                       |
| 8097.0 | M08a | MCW 11-11-2007 Sun 1801 (CAM)                           |
|        |      | TDNNU TUARU ANNGR                                       |
| 8097.0 | M08a | MCW 11-11-2007 Sun 1901 (CAM)                           |
|        |      | TDNNU TUARU ANNGR                                       |
| 8097.0 | M08a | MCW 18-11-2007 Sun 1835 (CAM)                           |
|        |      | in progress                                             |
| 8097.0 | M08a | MCW 18-11-2007 Sun 1902 (CAM)                           |
|        |      | TRDGA GAUND DWDID                                       |
| 8097.0 | M08a | MCW 26-11-2007 Mon 1901 (CAM)                           |
|        |      | GUIIG GDAGD GGWIG                                       |
| 8105   | X06  | AM 31-10-2007 2220 (ALF)                                |
|        |      | Mazielka 6-tone calling.                                |
| 8117   | M12  | CW 4-11-2007 Sun 1940 (FN)                              |
|        |      | 191 1 814 271                                           |
| 8117   | M12  | CW 7-11-2007 Wed 1940 (FN)                              |
|        |      | 191 1 814 271 rpt of 4-11-2007 1940z                    |
| 8123.0 | X06  | AM 15-11-2007 1544 (LDO)                                |
|        |      | Dep. of State Comms Moscow. Mazielka call               |
| 8143   | M12  | CW 7-11-2007 Wed 1420 (FN)                              |

998 000

|        |      |                                                                                                |
|--------|------|------------------------------------------------------------------------------------------------|
| 8183   | E07  | AM 7-11-2007 Wed 1800 (HFD)<br>199:1                                                           |
| 8215   | S06  | AM 2-11-2007 Fri 0710 (HFD)<br>196-208/5=62555                                                 |
| 8300.0 | V13  | AM 19-11-2007 Mon 1300 (DrA)<br>Stronger during start, but signal degraded during transmission |
| 8300.0 | V13  | AM 27-11-2007 Tue 1300 (DrA)<br>Very weak signal.                                              |
| 8420   | S06  | AM 5-11-2007 Mon 1300 (HFD)<br>831                                                             |
| 8437   | M89  | CW 16-11-2007 1613 (MPJ)<br>V T3AP de QF3K. // 3397                                            |
| 8464.0 | E03  | USB 18-11-2007 Sun 2200 (Rch)<br>Signal was jammed and barley audible, unable to copy.         |
| 8494.7 | MX   | CW 1-11-2007 1749 (AB)<br>Cluster beacon "D"                                                   |
| 8494.8 | MX   | CW 1-11-2007 1749 (AB)<br>Cluster beacon "P"                                                   |
| 8495   | MX   | CW 1-11-2007 1749 (AB)<br>Cluster beacon "C"                                                   |
| 8530   | S06  | AM 7-11-2007 Wed 1900 (HFD)<br>371-928/5=21767                                                 |
| 8535   | S06  | AM 1-11-2007 Thu 1000 (HFD)<br>895                                                             |
| 8709   | XM   | AM 21-11-2007 1119 (FN)<br>The audio feedback music is back again this morning.                |
| 8800   | E11  | USB 2-11-2007 Fri 0845 (FN)<br>232/00                                                          |
| 8800   | E11  | USB 15-11-2007 Thu 0845 (HFD)<br>232/00                                                        |
| 8800   | M03d | CW 2-11-2007 Fri 0815 (FN)<br>553/72 == 29487 .... 00000 00000 == 000 //9060                   |
| 8800.0 | E11  | USB 29-11-2007 Thu 0845 (PoRus)<br>E11 YL "Oblique" "312/00"                                   |
| 9049   | S11a | USB 15-11-2007 Thu 1000 (FN)<br>978/121                                                        |
| 9060   | M03d | CW 2-11-2007 Fri 0815 (FN)<br>553/72 == 29487 .... 00000 00000 == 000 //8800                   |
| 9060   | M03d | CW 5-11-2007 Mon 0815 (FN)<br>553/72 == 29487...                                               |
| 9063   | M08a | MCW 23-11-2007 0804 (N2UHC)<br>Cuban w/ 5F msgs                                                |
| 9105.0 | X06  | AM 15-11-2007 1529 (LDO)<br>Dep. of State Comms Moscow. Mazielka call                          |
| 9135   | S06  | AM 13-11-2007 Tue 0810 (HFD)<br>264                                                            |

|        |      |                                                                                                         |
|--------|------|---------------------------------------------------------------------------------------------------------|
| 9150   | M03  | CW 6-11-2007 Wed 1302 (FN)<br>ip                                                                        |
| 9153.0 | M08a | MCW 28-11-2007 Wed 1300 (Jon-FL)<br>(weak v2a mixed)(yes MCW, carrier with modulation on<br>both sideba |
| 9176   | M12  | CW 4-11-2007 Sun 1900 (FN)<br>257 1 4264 109                                                            |
| 9176   | M12  | CW 5-11-2007 Mon 1900 (FN)<br>257 1 9835 102                                                            |
| 9179   | S11a | USB 5-11-2007 Mon 0900 (FN)<br>978/121                                                                  |
| 9179   | S11a | USB 19-11-2007 0920 (MUK)<br>in progress                                                                |
| 9240   | SK01 | PSK31 18-11-2007 1000 (AVX)<br>Cuban intel. PSK220FEC modulated                                         |
| 9240.0 | V02a | AM 1-11-2007 Thu 1000 (Rch)<br>A 13423 26202 81831 (YL/SS)                                              |
| 9251   | E03  | USB 1-11-2007 2000 (AB)<br>LP id 68877                                                                  |
| 9251   | E03  | USB 1-11-2007 2100 (AB)<br>LP id 23440                                                                  |
| 9251   | E03  | USB 1-11-2007 2200 (AB)<br>LP id unreadable                                                             |
| 9251   | E03  | USB 22-11-2007 2005 (PPA)<br>British intelligence CYP //6959                                            |
| 9251.0 | E03  | USB 5-11-2007 2100 (PPA)<br>Lincolnshire Poacher id 57051 //7887                                        |
| 9260   | S06  | AM 7-11-2007 Wed 0845 (HFD)<br>ip                                                                       |
| 9305.0 | X06  | AM 15-11-2007 1636 (LD0)<br>Dep. of State Comms Moscow. Mazielka call                                   |
| 9361   | M24  | CW 9-11-2007 Fri 1445 (FN)<br>951 892 50                                                                |
| 9443   | G11  | USB 16-11-2007 Fri 1100 (HFD)<br>508/00                                                                 |
| 9443.0 | G11  | USB 23-11-2007 Fri 1100 (PoRus)<br>with "00" for "508" (508/00) Weak signal, S3-S4.                     |
| 9610   | S11A | USB 7-11-2007 Wed 0900 (HFD)<br>215/00                                                                  |
| 9610.0 | S11a | USB 21-11-2007 Wed 0900 (PoRus)<br>with "00" for "214" (214/00) Very strong signal - S9+10 db.          |
| 9610.0 | S11a | USB 28-11-2007 Wed 0900 (PoRus)<br>S11a "Cherta" with message for "212" ("212/35") - 35<br>groups!      |
| 9750   | S06  | AM 1-11-2007 Thu 0900 (HFD)<br>167-253/8=51076                                                          |
| 9950   | S06  | AM 23-11-2007 Fri 1610 (HFD)<br>425-871/16=58215                                                        |

|         |      |                                                                                               |
|---------|------|-----------------------------------------------------------------------------------------------|
| 9950    | S06  | AM 29-11-2007 1610 (MUK)<br>425 871 6 58215 81138 44383 06544 55427 35556 00000               |
| 9950    | S06  | AM 29-11-2007 Thu 1610 (HFD)<br>425-871/6=58215                                               |
| 9950    | S11A | USB 1-11-2007 Thu 1030 (HFD)<br>215/00 BC QRM                                                 |
| 9984    | M12  | CW 7-11-2007 Wed 1400 (FN)<br>998 000                                                         |
| 10156   | M12  | CW 28-11-2007 1220 (RiN)                                                                      |
| 10161   | M24  | CW 28-11-2007 0932 (RiN)<br>952 238 50 07569 etc (very fast - 25 x 5 fig groups a minute!     |
| 10175.5 | M42  | CROWD-36 31-10-2007 1647 (BCI)<br>Traffic                                                     |
| 10179.5 | M42  | CROWD36 15-11-2007 1624 (BCI)<br>Dep. of State Comms Moscow                                   |
| 10218.5 | M42  | CROWD36 15-11-2007 1627 (BCI)<br>Dep. of State Comms Moscow                                   |
| 10220.0 | M42  | 32-toneMFSK 15-11-2007 1636 (LDO)<br>Dep. of State Comms Moscow. traffic to "JUA", link 50035 |
| 10230   | S06  | AM 6-11-2007 Tue 1400 (HFD)<br>493:0                                                          |
| 10265   | S06  | AM 13-11-2007 Tue 0800 (HFD)<br>264                                                           |
| 10327   | XPA  | AM 2-11-2007 Fri 0700 (HFD)<br>msg                                                            |
| 10446   | M08a | CW 1-11-2007 1100 (Jon-FL)<br>late start, no callup                                           |
| 10480   | S06  | AM 1-11-2007 Thu 1010 (HFD)<br>895                                                            |
| 10580   | S06  | AM 1-11-2007 Thu 0910 (HFD)<br>167-253/8=51076                                                |
| 10635   | S06  | AM 5-11-2007 Mon 1310 (HFD)<br>831                                                            |
| 10767.0 | M42  | 32-toneMFSK 13-11-2007 1701 (LDO)<br>Dep. of State Comms Moscow. traffic on link 00189        |
| 10871.7 | MX   | CW 1-11-2007 1321 (AB)<br>Cluster beacon "D"                                                  |
| 10871.8 | MX   | CW 1-11-2007 1321 (AB)<br>Cluster beacon "P"                                                  |
| 10871.9 | MX   | CW 1-11-2007 1321 (AB)<br>Cluster beacon "S"                                                  |
| 10872   | MX   | CW 1-11-2007 1321 (AB)<br>Cluster beacon "C"                                                  |
| 11104   | E11B | USB 20-11-2007 Tue 1115 (HFD)<br>192/37=777777 77777 44217                                    |
| 11104   | E11b | USB 27-11-2007 1115 (MUK)<br>195/36                                                           |
| 11170   | E17Z | USB 15-11-2007 Thu 0800 (HFD)                                                                 |

|         |      |                                                 |
|---------|------|-------------------------------------------------|
|         |      | 674                                             |
| 11170   | E17Z | USB 29-11-2007 Thu 0800 (HFD)                   |
|         |      | 674-213/5=40014                                 |
| 11170.0 | E17  | AM 29-11-2007 Thu 0800 (PoRus)                  |
|         |      | E17z YL with short message (5 groups) for "674" |
| 11545   | E03  | USB 1-11-2007 2000 (AB)                         |
|         |      | LP id 68877                                     |
| 11627   | XPA  | AM 2-11-2007 Fri 0720 (HFD)                     |
|         |      | msg                                             |
| 11780   | S06  | AM 2-11-2007 Fri 0930 (HFD)                     |
|         |      | 516-290/7=52265                                 |
| 11830   | S06  | AM 7-11-2007 Wed 0840 (HFD)                     |
|         |      | 745-921/6=14094                                 |
| 12149.0 | X06  | AM 20-11-2007 0939 (LD0)                        |
|         |      | Dep. of State Comms Moscow. Mazielka call       |
| 12153   | E11  | USB 5-11-2007 Mon 0855 (FN)                     |
|         |      | i.p.                                            |
| 12153   | E11A | USB 5-11-2007 Mon 0845 (HFD)                    |
|         |      | 255/90=11111 39098                              |
| 12156   | M12  | CW 28-11-2007 1200 (RiN)                        |
| 12193   | M12  | CW 8-11-2007 Thu 1440 (FN)                      |
|         |      | 851 1 102 89                                    |
| 12193   | M12  | CW 15-11-2007 Wed 1440 (FN)                     |
|         |      | 851 1 923 45                                    |
| 12213.0 | X06  | AM 20-11-2007 0931 (LD0)                        |
|         |      | Dep. of State Comms Moscow. Mazielka call       |
| 12365   | S06  | AM 7-11-2007 Wed 0700 (HFD)                     |
|         |      | 729                                             |
| 12570   | S06  | AM 2-11-2007 Fri 0940 (HFD)                     |
|         |      | 516-290/7=52265                                 |
| 12603   | E03  | USB 1-11-2007 2200 (AB)                         |
|         |      | LP id unreadable                                |
| 13427   | XPA  | AM 2-11-2007 Fri 0740 (HFD)                     |
|         |      | msg                                             |
| 13527.7 | MX   | CW 1-11-2007 1321 (AB)                          |
|         |      | Cluster beacon "D"                              |
| 13527.8 | MX   | CW 1-11-2007 1321 (AB)                          |
|         |      | Cluster beacon "P"                              |
| 13528   | MX   | CW 1-11-2007 1321 (AB)                          |
|         |      | Cluster beacon "C"                              |
| 13552   | V07  | AM 1-11-2007 Thu 0620 (HFD)                     |
|         |      | 159:0                                           |
| 13593   | M12  | CW 15-11-2007 Wed 1420 (FN)                     |
|         |      | 851 1 923 45                                    |
| 148933  | M12  | CW 15-11-2007 Wed 1400 (FN)                     |
|         |      | 851 1 923 45                                    |
| 16331.8 | MX   | CW 1-11-2007 1321 (AB)                          |
|         |      | Cluster beacon "P"                              |

|         |      |                                                                                                    |
|---------|------|----------------------------------------------------------------------------------------------------|
| 16331.9 | MX   | CW 2-11-2007 1340 (AB)<br>Cluster beacon "S"                                                       |
| 16332   | MX   | CW 1-11-2007 1321 (AB)<br>Cluster beacon "C"                                                       |
| 16525.0 | E03a | USB 13-11-2007 Tue 0500 (DM4)<br>ID 20150                                                          |
| 17435   | SK01 | RDFT 29-10-2007 1700 (N2UHC)<br>Cuban AM carrier w/ RDFT signal, passed files                      |
| 17435   | SK01 | DRM 31-10-2007 1700 (N2UHC)<br>Cuban AM carrier w/ DRM signal, passed files                        |
| 17435   | SK01 | RDFT 1-11-2007 1700 (N2UHC)<br>Cuban AM carrier w/ RDFT signal, passed files                       |
| 17435   | SK01 | RDFT 6-11-2007 1700 (N2UHC)<br>Cuban AM carrier w/ RDFT signal, passed files                       |
| 17435   | SK01 | DRM 7-11-2007 1700 (N2UHC)<br>Cuban AM carrier w/ DRM signal, signal not decoding                  |
| 17435   | SK01 | RDFT 8-11-2007 1710 (N2UHC)<br>AM carrier w/ Cuban RDFT signal, passed files                       |
| 17435   | V02a | AM 29-10-2007 1700 (N2UHC)<br>Brief audio from Radio Rebelde on 5025, then Cuban V2a w/<br>5F msgs |
| 17435   | V02a | AM 5-11-2007 1700 (N2UHC)<br>Cuban YL/SS w/ 41345 85808 05831 callup & 5F msgs                     |
| 17435   | V02a | AM 10-11-2007 1704 (N2UHC)<br>Cuban w/ 5F msgs                                                     |
| 17435   | V02a | AM 11-11-2007 1733 (N2UHC)<br>Cuban w/ 5F msgs                                                     |
| 17435   | V02a | AM 19-11-2007 1732 (N2UHC)<br>Cuban YL/SS w/ 5F msgs                                               |
| 17435   | V02a | AM 20-11-2007 1727 (N2UHC)<br>Cuban V2a w/ 5F msgs                                                 |
| 17435   | V02a | AM 21-11-2007 1703 (N2UHC)<br>at 1703 w/ 5F msgs                                                   |
| 17435   | V02a | AM 23-11-2007 1700 (N2UHC)<br>Cuban w/ 72677 46882 03285 callup & 5F msgs                          |
| 17435   | V02a | AM 26-11-2007 1713 (KC2HMZ)<br>YL/SS 5FGs, apparently moved here from former 17436 kHz             |
| 17435.0 | V02a | AM 20-11-2007 1741 (HS)<br>YL voice w/ 5F grps in prog, signed "final" x3 at 1741.                 |
| 17436.0 | M08a | AM 11-11-2007 Sun 1701 (CAM)<br>SSYL5F atencion 43257 23035 72875                                  |
| 17436.0 | V02a | AM 10-11-2007 Sat 1701 (CAM)<br>ssyl5f atencion 58062 26484 20344                                  |
| 17436.0 | V02a | AM 11-11-2007 Sun 1701 (CAM)<br>SSYL5F atencion 43257 23035 72875                                  |
| 17436.0 | V02a | AM 18-11-2007 Sun 1702 (CAM)<br>SSYL5F Atencion 19351 05650 81683                                  |
| 17436.0 | V02a | AM 27-11-2007 Tue 1701 (CAM)                                                                       |

|         |      |                                                                                                                  |
|---------|------|------------------------------------------------------------------------------------------------------------------|
|         |      | SSYL5F Atencion 51847 60775 14366                                                                                |
| 17480   | SK01 | RDFT 29-10-2007 1600 (N2UHC)<br>Cuban AM carrier w/ RDFT signal. Passed files                                    |
| 17480   | SK01 | DRM 31-10-2007 1600 (N2UHC)<br>Cuban AM carrier w/ DRM signal, passed files                                      |
| 17480   | SK01 | RDFT 1-11-2007 1600 (N2UHC)<br>Cuban AM carrier w/ RDFT signal, passed files                                     |
| 17480   | V02a | AM 29-10-2007 1602 (N2UHC)<br>Cuban w/ 26621 76370 57408 callup, carrier kept dropping.<br>Came back up on 17478 |
| 17480   | V02a | AM 1-11-2007 1600 (N2UHC)<br>Cuban w/ 31503 54180 52211 callup & 5F msgs                                         |
| 17515   | SK01 | RDFT 6-11-2007 1609 (N2UHC)<br>Cuban AM carrier w/ RDFT signal, new freq for this sked,<br>passed files          |
| 17515   | SK01 | DRM 7-11-2007 1600 (N2UHC)<br>Cuban AM carrier w/ DRM signal, unable to decode                                   |
| 17515   | SK01 | RDFT 8-11-2007 1600 (N2UHC)<br>AM carrier w/ Cuban RDFT signal, passed files                                     |
| 17515   | V02a | AM 9-11-2007 1604 (N2UHC)<br>Cuban w/ 5F msgs, late start                                                        |
| 17515   | V02a | AM 10-11-2007 1605 (N2UHC)<br>Cuban w/ 5F msgs, up late w/o callup                                               |
| 17515   | V02a | AM 11-11-2007 1609 (N2UHC)<br>Cuban w/ 5F msgs in progress                                                       |
| 17515   | V02a | AM 15-11-2007 1608 (N2UHC)<br>Cuban w/ 5F msgs                                                                   |
| 17515   | V02a | AM 19-11-2007 1600 (N2UHC)<br>Cuban YL/SS w/ 45185 27314 21445 callup & 5F msgs                                  |
| 17515   | V02a | AM 20-11-2007 1600 (N2UHC)<br>Cuban V2a w/ 66651 67781 04474 callup & 5F msgs                                    |
| 17515   | V02a | AM 21-11-2007 1600 (N2UHC)<br>Cuban V2a w/ 44750 16174 31132 callup & 5F msgs                                    |
| 17515   | V02a | AM 23-11-2007 1620 (N2UHC)<br>Cuban w/ 5F msgs                                                                   |
| 17515.0 | V02  | AM 22-11-2007 Thu 1615 (KC2JXC)                                                                                  |
| 17515.0 | V02a | AM 10-11-2007 1606 (N2UHC)<br>5F msgs, up late w/o callup                                                        |
| 17515.0 | V02a | AM 14-11-2007 Wed 1600 (SE-C)                                                                                    |
| 17515.0 | V02a | AM 26-11-2007 Mon 1600 (M9447A)                                                                                  |
| 17515.0 | V02c | AM 23-11-2007 Fri 1600 (SE-C)                                                                                    |
| 18302   | V07  | AM 1-11-2007 Thu 0600 (HFD)<br>159:0                                                                             |
| 20047.8 | MX   | CW 1-11-2007 1321 (AB)<br>Cluster beacon "P"                                                                     |
| 20956.0 | M22  | CW 10-11-2007 1155 (KK2)<br>4XZ: Israeli Navy " = = NR 051 YM V GH7M 436001 ZW30<br>GR 71 ="                     |

20956.0 M22 CW 11-11-2007 0922 (N2UHC)  
4XZ: Isr Navy Haifa. vvv de 4xz 4xz, lots of qtc

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\* CONTRIBUTORS \*

|        |                                 |
|--------|---------------------------------|
| AB     | Ary Boender, Netherlands        |
| ALF    | Alf, Germany                    |
| AVX    | AlphaVax, Germany               |
| BCI    | Bruno Casula, Italy             |
| CAM    | Cam, Panama                     |
| DL8AAM | DL8AAM, Germany                 |
| DM     | Dan Malloy, MA, USA             |
| DM4    | David Marshall                  |
| DrA    | Dr. Andros, WA, USA             |
| FN     | Fritz Nusser, Switzerland       |
| GL     | Gilles Letourneau, Canada       |
| HFD    | Hans-Friedrich Dumrese, Germany |
| IARUMS | IARU Monitoring Service         |
| Jon-FL | Jon, FL, USA                    |
| KC2HMZ | KC2HMZ                          |
| KC2JXC | Ralph / KC2JXC, NY, USA         |
| KK2    | Kristian K, Central Europe      |
| LDO    | Leif Dehio, Germany             |
| LUF    | lufloda70                       |
| M9447A | M9447A, QC, Canada              |
| MPJ    | Jim, W. Europe                  |
| MUK    | Mikesndbs, UK                   |
| N2UHC  | N2UHC                           |
| PoRus  | Poacher, Russia                 |
| PPA    | Peter Poelstra, Netherlands     |
| RCh    | Robert Church, NY, USA          |
| RiN    | Richard Ness, UK                |
| SE-C   | Seism, Canada                   |
| SHER   | sher0242, MA, USA               |
| ST     | Samson, ONT, Canada             |
| TB     | Todd B, TN, USA                 |
| WES    | Westt1us, USA                   |
| WP3    | Wolfgang Palmberger             |

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